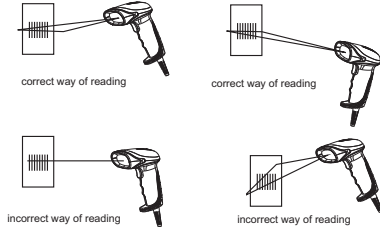# Wired Laser Barcode Scanner
User Manual

7 1 2 1 1 0 0 0 0 4

Thanks you for choosing our company's product. To have a better operating experience, please read this manual carefully.

Reading Angle

1. Maintain a bevel between the scanner and the bar code to make a best reading.
2. Do not keep the scanner in 90° with the bar code, otherwise the scanner can't read.
3. The scanner must aim at the bar code and the beam must cover the whole bar code. If not, error may occur.

correct way of reading   correct way of reading

incorrect way of reading   incorrect way of reading

Packing list:

| 1*barcode scanner | 1*cable (USB/KB/COM) |
| 1*user manual | 1*Stand (optional) |

Product Introduction

This barcode scanner has USB/KB/COM interface for user's choice. With advantages of quick decoding speed and easy operation, it should be a good solution for bar code identification.

If you have any questions about the functions and settings, please contact us for more details.

Our company reserves all rights of modifying and final explanation for the manual.
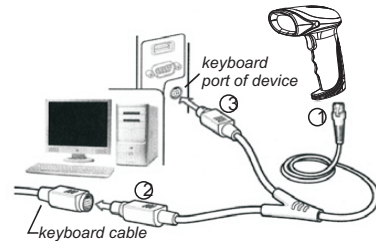
Connecting the Scanner

USB:

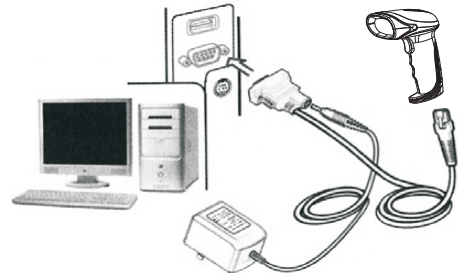Connect the USB cable to the USB interface in the computer.

PS/2:

1. Shut off the power supply of the host.
2. Pull out the keyboard of the host.
3. Confirm the PS/2 cable is suitable for the connection of the host.
4. Connect the scanner to the host.
5. Connect the keyboard port to the PS/2 cable.
6. Open the host.

keyboard port of device

keyboard cable

RS232:

1. Shut off the power supply of the host.
2. Confirm the connection is correct from the RS232 to the host.
3. Connect the AC adaptor to the power port of the scanner or connect the keyboard port of the host to the keyboard port of the scanner.
4. Open the host.
5. Scan the setup barcode to set the output mode as RS232 (serial mode).

Technical Parameters

Physical parameters

Material	ABS+TPE+PC
Power supply	DC 5V ±5%
Operating current	50ma(operating mode);30ma(standby mode); 100ma(maximum)
Quiescent current	20mA

Performance parameters

Interface	USB、RS232、PS/2
Baud rate	RS232 baudrate: 600-115200
Light source	Visible laser 650nm (National laser safety standard Class 1)
Decoding Capability	Code 39,Code 93,Code128,Code11,UCC/EAN-128, EAN-8,EAN-13,UPC-A,ISSN+2,ISBN+5,Industrial 25,etc.
Trigger model	Manual operation;Autosensing scanning; Continuous scanning
Sensing distance	15cm(100cm²)
Resolution	Minimum 0.1mm(4mils)
Depth of field	2—9cm(0.1mmbar width);3—50cm(0.3mm bar width)
Decoding speed	300scans/sec
Scan width	5cm—30cm
Prompt Mode	Buzzer, Indicator light
Contrast	30%
Contrast	Roll 30°、Pitch 75°、Yaw 65°
Cylinder Horizontal	Diameter 35mm

Environmental parameters

Operating Temp.	0 to 50 ℃ / 32 to 122 ℉
Storage Temp.	0 to 50 ℃ / 32 to 122 ℉
Operating Humidity	20 - 85% (non-condensing)
Storage Humidity	20 - 85% (non-condensing)
ESD Protection	15KV air discharge
Shock resistance	1.5m free fall on concrete surface

Automatic Function Settings

1. If it is an automatic barcode scanner, it has already been well set with the auto scanning function. When there's an object passes the sensitive area (the sensitive area depends on the size of the object, normally is 5-30cm), the scanner will scan automatically. After it reads a bar code successfully, the light will be off and a trigger cycle finished. The scanner will read again when there's and object passes the sensitive area.
2. For the automatic barcode scanner with stand, the red light of the scanner will be on when the scanner is power on and put on the stand. This means the auto scanning function is on. When the scanner is removed from the stand, the red light will be off. Now the auto scanning function is off and the scanner turns to manual trigger mode.

Notice：After reading a bar code successfully,please clear the barriers in the sensitive area.Otherwise,the scanner won't read again.

Function Settings

Definition Settings

Show Version Info (user-defined)　　　Show Serial NO. (user-defined)　　　Reset Factory Defaults

Interface

Default Interface　　　PS2 Keyboard Wedge　　　Serial

USB Keyboard Wedge　　　USB Serial

Reading Mode

Default Mode　　　Single Scan No Trigger　　　Multiscan

Multiscan No Trigger　　　Continuous Scan　　　Pulse

Buzzer

ON

OFF

Add Code ID

No Code ID

Send Code ID as Prefix

Send Code ID as Suffix

Language Settings

America English

Canada French

Dutch

Spanish

Argentina(Latin)

Brazil Portuguese

Danish

England English

Italian

France French

German

Norway

Swedish, Finnish

Slovak

Portugal Portuguese

Czech

Belgium Dutch

Turkish-F

Turkish-Q

Polish 214

Switzerland German,French

Croatian

Hungarian

Serial Mode Parameter Settings (Baud Rate)

600bps

1200bps

2400bps

4800bps

9600bps

19200bps

38400bps

57600bps

115200bps

Serial Protocol

Serial No Check Digit

Serial XON/OFF

Serial RTS/CTS

Serial ACK/NA

Hand Shake Timeout-2secs

Hand Shake Timeout-5secs

Data Bits

7

8

Stop Bits

1

2

Check Digits

None

ODD

Even

Mark Check Digit

Space Check Digit

Transmit Speed

Highest

Higher

Lower

Lowest

Image

Revise Image Disable

Revise Image Enable

Code 39

Code 39/on

Code 39/off

Code 39 ID as 'm'

Code 39 Full ASCLL-on

Code 39 Full ASCLL-off

Code39 MOD43 Verify Off

Code39 MOD43 Verify On

Code39 transmit verify-On

Code39 transmit CHARS-Off

Code39 transmit CHARS-On

Code39 redundancy enable

Code39 redundancy disable

Replace "2" with "TWO" -disable

Replace "2" with "TWO"-enable

Covert code39 into code32 (DF)-disable

Covert code39 into code32-enable

Code39 TAB Mode

UPC-A

UPC-A on

UPC-A off

UPCA ID as 'e'

Convert UPCA into EAN13 enable

Convert UPCA into EAN13 disable

Transmit UPCA check code

Transmit UPCA check code disable

UPCA hide system character-disable

UPCA hide system character-enable

UPC-E

UPC-E on

UPC-E off

UPC-E ID as 'f'

Convert UPCE into UPCA -enable

Convert UPCE into UPCA-disable

EAN13

EAN13 on

EAN13 off

EAN13 ID as 'd'

Transmit EAN13 check code-enable

Transmit EAN13 check code-disable

Convert EAN13 into ISBN-enable

Convert EAN13 into ISBN-disable

Convert EAN13 into ISSN-disable

Convert EAN13 into ISSN-enable

EAN13 redundancy enable

EAN13 redundancy disable

EAN 8

EAN8 /on

EAN8 /off

EAN8 ID as 'c'

Supplements Settings

Supplements-5 digits

Supplements-2 digits

Supplements-2&5 digits

Supplements disable

Code93

Code93 /on

Code93/ off

Code 93 ID as 'l'

Code93 redundancy enable

Code93 redundancy disable

Code 93 MOD47/on

Code 93 MOD47/off

Code128

Code128/on

Code128/off

Code 128 ID 'a'

Code128 redundancy disable

Code128 redundancy enable

Codabar

Codabar/on

Codabar/off

Codabar ID as 'v'

Codabar Send start/stop CHARS-enable

Codabar Send start/stop CHARS-disable

Codabar redundancy enable

Codabar redundancy disable

Interleaved 25

Interleaved/ITF25-on

Interleaved/ITF25-off

ITF25 ID as 'n'

ITF25
redundancy disable

ITF25
redundancy enable

Industrial 25

Industrial 25/ on

Industrial 25/ off

Industrial 25 ID as 'o'

Industrial 25
redundancy enable

Industrial 25
redundancy disable

Code MSI

Code MSI/on

Code MSI/off

MSI ID as 's'

Code MSI
redundancy disable

Code MSI
redundancy enable

Code Plessey

Code Plessey

Code Plessey/off

Code Plessey ID as 't'

Code Plessey
redundancy disable

Code Plessey
redundancy enable

Code11

Code11/on

Code11/off

Code 11 ID as 'u'

Code11
redundancy disable

Code11
redundancy enable

Code11 auto CK verify

Code11 C verify

Code11 CK verify

Matrix 25

Matrix 25/on

Matrix 25/off

Matrix 25 ID as 'q'

Postage Code 25/on

Postage Code 25/off

Postage
Code 25 ID as 'r'

Aviation 25/on

Aviation 25/off

Aviation 25 ID as 'p'

GS1

GS1 Omnidirectional/on

GS1 Omnidirectional/off

GS1 Omni ID as 'j'

GS1 Limited/on

GS1 Limited/off

GS1 Limited ID as 'k'

FUNC

Cancel FUNC Mapping

Replace 'FUNC1' with '0'

Replace 'FUNC2' with '2'

Replace 'FUNC3' with '3'

Replace 'FUNC4' with '6'

Front/Behind CHARS Settings

Hide CHARS-disable

Hide CHARS '-'

Replace '0'
with 'A'-disable

Replace '0'
with 'A'-enable

Replace '1'
with 'ONE'-disable

Replace '1'
with 'ONE'-enable

Delete CHARS
in front of '12345'-disable

Delete CHARS
in front of '12345'

USB Upload

USB quick upload/on

USB quick upload/off

IR Auto−sensing

IR Auto-sensing/on

IR Auto-sensing/off

ASCII CHARS

Don't upload without
ASCII CHARS and warn

Don't warn, upload
without ASCII CHARS

Hide Characters

Hide the behind
CHARS-disable

Hide the last 5
characters-enable

Hide the front
CHARS-disable

Hide the front 5
characters-enable

Hide the middle
characters-disable

Hide the middle 5
characters-enable

Starting from the
front fourth CHAR

Multiscan Settings

3 sec

1 sec

5 sec

Conversion of EAN, ISBN & ISSN

Convert all EAN
into ISBN-enable

Convert all EAN
into ISBN-disable

Convert all EAN
into ISSN-enable

Convert all EAN
into ISSN-disable

Enter into checking
mode (used with caution)

Prefix & Suffix Setting

All codes add suffix CR

All codes add suffix CR+CR

LF all codes add suffix ETX

All codes add prefix F2

All codes add suffix F2

All codes add suffix
format CHARS-disable

All codes add prefix STX

All codes add prefix disable

Set to add prefix

Set to add suffix

Quit out prefix and
suffix adding mode

Clear all prefix CHARS

Clear all suffix CHARS

Alphabet

SOH	STX	ETX
EOT	ENQ	ACK
BEL	Backspace	TAB
LF	VT	FF
CR	SO	SI
DLE	DC1	DC2
DC3	DC4	NAK
SYN	ETB	CAN
EM	SUB	ESC
FS	GS	RS
US	SPACE	!
"	#	$

%	&	'
(	)	*
+	,	–
.	/	0
1	2	3
4	5	6
7	8	9
:	;	<
=	>	?
@	A	B
C	D	E
F	G	H

I	J	K
L	M	N
O	P	Q
R	S	T
U	V	W
X	Y	Z
[	\	]
^	_	`
a	b	c
d	e	f
g	h	I
j	k	l

m	n	o
p	q	r
s	t	u
u	w	x
y	z	{
|	}	~
Delete	F1	F2
F3	F4	F5
F6	F7	F8
F9	F10	F11
F12	INSERT	HOME
Page up	Delete	END

Page down	Right arrow	Left arrow
Down arrow	Up arrow	

Warranty Card

1. Customers can enjoy the legal rights using the purchase invoice and the warranty card without doing any warranty procedures.
2. All the warranty items are subject to the guarantee clause and user notice that published by our company.
3. We will not guarantee the product if it is in one of the following situation, but we can offer maintenance service with charges.
   (1) Man-made damage or improper operation;
   (2) Damage caused by maintenance of non-professionals;
   (3) Have no warranty card, the model is inconsistent with actual or the warranty card is obliterated;
   (4) Irresistible damage (natural disasters like thunder, earthquake, fire, etc.)
4. Please fill in the warranty card. Do not obliterate the card. Otherwise, we will make charges maintenance.
5. Please keep this card well. We will not offer another warranty card.

Laser Barcode Scanner Warranty Proof

User Name		Telephone	
Address			
Purchasing Date	D/ M/ Y	Model	
Serial NO.		Agency	

Maintenance Record			
Date	Product Failure	Maintenance Condition	Repairman